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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/917,791

DATE: 01/16/2003

TIME: 13:44:36

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF4\01162003\I917791.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: Dertzbaugh, Mark T.

8 (ii) TITLE OF INVENTION: PROTECTIVE PEPTIDES OF NEUROTOXIN OF C.
9 BOTULINUM

11 (iii) NUMBER OF SEQUENCES: 22

13 (iv) CORRESPONDENCE ADDRESS:

14 (A) ADDRESSEE: Hendricks and Associates

15 (B) STREET: P.O. Box 2509

16 (C) CITY: Fairfax

17 (D) STATE: VA

18 (E) COUNTRY: US

19 (F) ZIP: 22031

21 (v) COMPUTER READABLE FORM:

22 (A) MEDIUM TYPE: Floppy disk

23 (B) COMPUTER: IBM PC compatible

24 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

25 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

27 (vi) CURRENT APPLICATION DATA:

C--> 28 (A) APPLICATION NUMBER: US/09/917,791

C--> 29 (B) FILING DATE: 02-Jan-2003

30 (C) CLASSIFICATION:

32 (viii) ATTORNEY/AGENT INFORMATION:

33 (A) NAME: Hendricks, Glenna

34 (B) REGISTRATION NUMBER: 32,535

35 (C) REFERENCE/DOCKET NUMBER: der09/917,791

37 (ix) TELECOMMUNICATION INFORMATION:

38 (A) TELEPHONE: 703-425-8405

39 (B) TELEFAX: 703-425-8406

42 (2) INFORMATION FOR SEQ ID NO: 1:

44 (i) SEQUENCE CHARACTERISTICS:

45 (A) LENGTH: 40 base pairs

46 (B) TYPE: nucleic acid

47 (C) STRANDEDNESS: unknown

48 (D) TOPOLOGY: linear

50 (ii) MOLECULE TYPE: DNA (genomic)

52 (iii) HYPOTHETICAL: NO

54 (iv) ANTI-SENSE: NO

56 (vi) ORIGINAL SOURCE:

57 (A) ORGANISM: C. botulinum

60 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

62 ATATGGAATT CGTTAATAAA CAATTTAATT ATAAAGATCC

64 (2) INFORMATION FOR SEQ ID NO: 2:

2
1

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66      (i) SEQUENCE CHARACTERISTICS:
67          (A) LENGTH: 42 base pairs
68          (B) TYPE: nucleic acid
69          (C) STRANDEDNESS: unknown
70          (D) TOPOLOGY: linear
72      (ii) MOLECULE TYPE: DNA (genomic)
74      (iii) HYPOTHETICAL: NO
76      (iv) ANTI-SENSE: NO
78      (vi) ORIGINAL SOURCE:
79          (A) ORGANISM: C. botulinum
82      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
84 AGTATCGTCG ACTTTTAATT CTGTATCTAT TGTACTTCCA CC      42
86 (2) INFORMATION FOR SEQ ID NO: 3:
88      (i) SEQUENCE CHARACTERISTICS:
89          (A) LENGTH: 32 base pairs
90          (B) TYPE: nucleic acid
91          (C) STRANDEDNESS: unknown
92          (D) TOPOLOGY: linear
94      (ii) MOLECULE TYPE: DNA (genomic)
96      (iii) HYPOTHETICAL: NO
98      (iv) ANTI-SENSE: NO
100     (vi) ORIGINAL SOURCE:
101         (A) ORGANISM: C. botulinum
104     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
106 GATACAGAAT TCAAAGTTAT TGATACTAAT AG      32
108 (2) INFORMATION FOR SEQ ID NO: 4:
110     (i) SEQUENCE CHARACTERISTICS:
111         (A) LENGTH: 34 base pairs
112         (B) TYPE: nucleic acid
113         (C) STRANDEDNESS: unknown
114         (D) TOPOLOGY: linear
116     (ii) MOLECULE TYPE: DNA (genomic)
118     (iii) HYPOTHETICAL: NO
120     (iv) ANTI-SENSE: NO
122     (vi) ORIGINAL SOURCE:
123         (A) ORGANISM: C. botulinum
126     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
128 CTTTGCGTCG ACTCCCCAA ATGTTCTAAG TTCC      34
130 (2) INFORMATION FOR SEQ ID NO: 5:
132     (i) SEQUENCE CHARACTERISTICS:
133         (A) LENGTH: 39 base pairs
134         (B) TYPE: nucleic acid
135         (C) STRANDEDNESS: unknown
136         (D) TOPOLOGY: linear
138     (ii) MOLECULE TYPE: DNA (genomic)
140     (iii) HYPOTHETICAL: NO
142     (iv) ANTI-SENSE: NO
144     (vi) ORIGINAL SOURCE:
145         (A) ORGANISM: C. botulinum

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148      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
150 GGGTTAGAAT TCAGCTTTGA GGAAGTTAGA ACATTTGGG      39
152 (2) INFORMATION FOR SEQ ID NO: 6:
154      (i) SEQUENCE CHARACTERISTICS:
155          (A) LENGTH: 45 base pairs
156          (B) TYPE: nucleic acid
157          (C) STRANDEDNESS: unknown
158          (D) TOPOLOGY: linear
160      (ii) MOLECULE TYPE: DNA (genomic)
162      (iii) HYPOTHETICAL: NO
164      (iv) ANTI-SENSE: NO
166      (vi) ORIGINAL SOURCE:
167          (A) ORGANISM: C. botulinum
170      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
172 AGGACTGTCG ACCAAGTCCC AATTATTAAC TTTGATTGAT AAATC      45
174 (2) INFORMATION FOR SEQ ID NO: 7:
176      (i) SEQUENCE CHARACTERISTICS:
177          (A) LENGTH: 36 base pairs
178          (B) TYPE: nucleic acid
179          (C) STRANDEDNESS: unknown
180          (D) TOPOLOGY: linear
182      (ii) MOLECULE TYPE: DNA (genomic)
184      (iii) HYPOTHETICAL: NO
186      (iv) ANTI-SENSE: NO
188      (vi) ORIGINAL SOURCE:
189          (A) ORGANISM: C. botulinum
192      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
194 TTAAATGAAT TCTCAATCAA AGTTAATAAT TGGGAC      36
196 (2) INFORMATION FOR SEQ ID NO: 8:
198      (i) SEQUENCE CHARACTERISTICS:
199          (A) LENGTH: 33 base pairs
200          (B) TYPE: nucleic acid
201          (C) STRANDEDNESS: unknown
202          (D) TOPOLOGY: linear
204      (ii) MOLECULE TYPE: DNA (genomic)
206      (iii) HYPOTHETICAL: NO
208      (iv) ANTI-SENSE: NO
210      (vi) ORIGINAL SOURCE:
211          (A) ORGANISM: C. botulinum
214      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
216 CTCTGGGTCG ACTTCTAACA GAATAACAGC TCC      33
218 (2) INFORMATION FOR SEQ ID NO: 9:
220      (i) SEQUENCE CHARACTERISTICS:
221          (A) LENGTH: 35 base pairs
222          (B) TYPE: nucleic acid
223          (C) STRANDEDNESS: unknown
224          (D) TOPOLOGY: linear
226      (ii) MOLECULE TYPE: DNA (genomic)
228      (iii) HYPOTHETICAL: NO

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230      (iv) ANTI-SENSE: NO
232      (vi) ORIGINAL SOURCE:
233          (A) ORGANISM: C. botulinum
236      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
238 GAAGTAAGAG CTCTGGATAA AATTGCGGAT ATAAC
240 (2) INFORMATION FOR SEQ ID NO: 10:
242      (i) SEQUENCE CHARACTERISTICS:
243          (A) LENGTH: 36 base pairs
244          (B) TYPE: nucleic acid
245          (C) STRANDEDNESS: unknown
246          (D) TOPOLOGY: linear
248      (ii) MOLECULE TYPE: DNA (genomic)
250      (iii) HYPOTHETICAL: NO
252      (iv) ANTI-SENSE: NO
254      (vi) ORIGINAL SOURCE:
255          (A) ORGANISM: C. botulinum
258      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
260 GCTATGATTA ATATAAATAA ATTTTGAAT CAATGC
262 (2) INFORMATION FOR SEQ ID NO: 11:
264      (i) SEQUENCE CHARACTERISTICS:
265          (A) LENGTH: 31 base pairs
266          (B) TYPE: nucleic acid
267          (C) STRANDEDNESS: unknown
268          (D) TOPOLOGY: linear
270      (ii) MOLECULE TYPE: DNA (genomic)
272      (iii) HYPOTHETICAL: NO
274      (iv) ANTI-SENSE: NO
276      (vi) ORIGINAL SOURCE:
277          (A) ORGANISM: C. botulinum
280      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
282 TAACCGGTCG ACACCATAAG GGATCATAGA G
284 (2) INFORMATION FOR SEQ ID NO: 12:
286      (i) SEQUENCE CHARACTERISTICS:
287          (A) LENGTH: 39 base pairs
288          (B) TYPE: nucleic acid
289          (C) STRANDEDNESS: unknown
290          (D) TOPOLOGY: linear
292      (ii) MOLECULE TYPE: DNA (genomic)
294      (iii) HYPOTHETICAL: NO
296      (iv) ANTI-SENSE: NO
298      (vi) ORIGINAL SOURCE:
299          (A) ORGANISM: C. botulinum
302      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
304 AGTACTAAGC TTTTCATACA TACTATTATA TACAATAGC
306 (2) INFORMATION FOR SEQ ID NO: 13:
308      (i) SEQUENCE CHARACTERISTICS:
309          (A) LENGTH: 35 base pairs
310          (B) TYPE: nucleic acid
311          (C) STRANDEDNESS: unknown

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312         (D) TOPOLOGY: linear
314     (ii) MOLECULE TYPE: DNA (genomic)
316     (iii) HYPOTHETICAL: NO
318     (iv) ANTI-SENSE: NO
320     (vi) ORIGINAL SOURCE:
321         (A) ORGANISM: C. botulinum
324     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
326 AAAAAATAGAG CTCAATTATT TAATTTAGAA AGTAG
328 (2) INFORMATION FOR SEQ ID NO: 14:
330     (i) SEQUENCE CHARACTERISTICS:
331         (A) LENGTH: 33 base pairs
332         (B) TYPE: nucleic acid
333         (C) STRANDEDNESS: unknown
334         (D) TOPOLOGY: linear
336     (ii) MOLECULE TYPE: DNA (genomic)
338     (iii) HYPOTHETICAL: NO
340     (iv) ANTI-SENSE: NO
342     (vi) ORIGINAL SOURCE:
343         (A) ORGANISM: C. botulinum
346     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
348 ACCATCGTCG ACAAACATTA TATTATTACT AGC
350 (2) INFORMATION FOR SEQ ID NO: 15:
352     (i) SEQUENCE CHARACTERISTICS:
353         (A) LENGTH: 37 base pairs
354         (B) TYPE: nucleic acid
355         (C) STRANDEDNESS: unknown
356         (D) TOPOLOGY: linear
358     (ii) MOLECULE TYPE: DNA (genomic)
360     (iii) HYPOTHETICAL: NO
362     (iv) ANTI-SENSE: NO
364     (vi) ORIGINAL SOURCE:
365         (A) ORGANISM: C. botulinum
368     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
370 TATGGTGAAT TCATCTGGAC TTTACAGGAT ACTCAGG
372 (2) INFORMATION FOR SEQ ID NO: 16:
374     (i) SEQUENCE CHARACTERISTICS:
375         (A) LENGTH: 27 base pairs
376         (B) TYPE: nucleic acid
377         (C) STRANDEDNESS: unknown
378         (D) TOPOLOGY: linear
380     (ii) MOLECULE TYPE: DNA (genomic)
382     (iii) HYPOTHETICAL: NO
384     (iv) ANTI-SENSE: NO
386     (vi) ORIGINAL SOURCE:
387         (A) ORGANISM: C. botulinum
390     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
392 ATTTACGTCG ACATATTTAT TTGGATC
394 (2) INFORMATION FOR SEQ ID NO: 17:
396     (i) SEQUENCE CHARACTERISTICS:

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VERIFICATION SUMMARY

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L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]